

**CHAINWAY**



# R5

## Wearable UHF Reader

Chainway R5 is a newly-developed wearable UHF reader that enables read distance of 14m. By adapting wrist strap or arm strap, it can be attached to mobile phone, tablet and other devices by magnetic attachment. It features removable battery, performs data transmission via Type C USB, and enables user information interaction via Bluetooth coordinated with APP or SDK. And it also can be paired with Android/IOS device to expand RFID capability. This RFID reader can be suitable for warehousing, power inspection, asset management, retail, etc., which provides users with more flexibility to efficiently finish their tasks at hand.



# Specification

## Physical Characteristics

<b>Dimensions</b>	108mm × 78mm × 18mm
<b>Weight</b>	200g / 7.05oz.
<b>Port</b>	USB Type C
<b>Button</b>	ON / OFF, SCAN
<b>Battery</b>	2000mAh (removable)
<b>Charging Current</b>	5V / 1.5A
<b>Charging Duration</b>	2 hours
<b>LED Indicator</b>	Red indicator will be ON when charging;
	Green indicator will be ON when device has been fully charged;
	Blue indicator will be ON when battery is higher than 20%;
	Blue indicator will flash when battery is lower than 20%;
	Bluetooth is not paired when bluetooth indicator is OFF; Bluetooth is paired when bluetooth indicator is ON

## Developing Environment

<b>SDK</b>	Android / IOS SDK Supported
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## Communication

<b>Type C USB</b>	USB connection to realize data transfer
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<b>BT</b>	Bluetooth Low Energy (BLE) 5.0
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## User Environment

<b>Operating Temp.</b>	-4°F to 122°F / -20°C to 50°C
<b>Storage Temp.</b>	-40°F to 158°F / -40°C to 70°C
<b>Humidity</b>	5%RH - 95%RH non condensing
<b>Dropping</b>	1.2m / 3.94ft. dropping on concrete
<b>Sealing</b>	IP65

## UHF

<b>Engine</b>	CM710-1 module based on Impinj E710 CM2000-1 module based on Impinj Indy R2000	
<b>Antenna parameter</b>	Circular Polarized Antenna (3dBic)	
<b>Frequency</b>	920-925MHz / 902-928MHz / 865-868MHz	
<b>Protocol</b>	EPC C1 GEN2 / ISO18000-6C	
<b>Power</b>	1W (30dBm, support +5~+30dBm adjustable)	
	2W Optional (33dBm, for Latin America, etc.)	
<b>Max Read Range</b>	Impinj E710 chip: 11m (Impinj MR6 tag, size 70 x 15mm) 12m (Impinj M750 tag, size 70 x 15mm) 14m (Alien H3 Anti-Metal tag, size 130 x 42mm)	
	Impinj R2000 chip: 11m (Impinj MR6 tag, size 70 x 15mm) 8m (Impinj M750 tag, size 70 x 15mm) 9m (Alien H3 Anti-Metal tag, size 130 x 42mm)	
	<b>Fastest Read Rate</b>	900+ tags/sec

\* Ranges are measured in the open outdoors and low interference environment, and rate is measured in a laboratory low interference environment, they are affected by tags and environment.

## Accessories (Optional)

Wrist strap / arm strap / magnetic handle

Notice: Product specifications are subject to change without prior notice. / Model: R5 / Update Date: 2023-10-08

**CHAINWAY**<sup>®</sup>

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